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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of

STACHOWIAK

Atty. Ref.: 3691-623

Serial No. To be Assigned

Group:

Filed: December 24, 2003

Examiner:

For: LOW-E MATCHABLE COATED ARTICLES AND METHODS
OF MAKING SAME

* * * * *

December 24, 2003

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

INFORMATION DISCLOSURE STATEMENT

- | | | |
|-------------------------------------|--|-----------------|
| <input checked="" type="checkbox"/> | 1. PTO-1449 Pursuant to 37 CFR 1.97(b)
[within 3 months of filing or prior to 1st Office Action] | <i>N/C</i> |
| <input type="checkbox"/> | 2. Statement Pursuant to 37 CFR 1.97(c)
[before Final Office Action and Allowance] | <i>N/C</i> |
| <input type="checkbox"/> | 3. Fee Payment Pursuant to 37 CFR 1.97(c)
[before Final Office Action and Allowance] | <i>\$180.00</i> |
| <input type="checkbox"/> | 4. Pursuant to 37 CFR 1.97(d)
[before Issue Fee payment] | <i>\$180.00</i> |

The following are submitted in the above-identified application in compliance with 37 C.F.R. §§ 1.97 and 1.98:

- ☒ 5. A list of documents on Form PTO-1449. Actual copies of the references listed on the attached form PTO-1449 are not included herewith in accordance with MPEP §609, these references being previously submitted in any and all of the parent applications. The parent application includes U.S. application Serial No. 10/310,854.

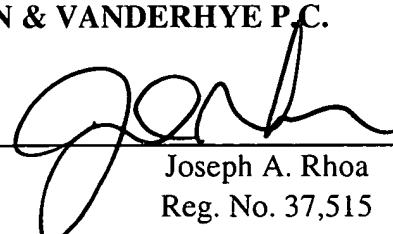
This paper is submitted in accordance with:

- ☒ 6. 37 CFR 1.97(b): [within 3 months of filing or prior to 1st Office Action]
- ☐ 7. 37 CFR 1.97(c): [before Final Office Action and Allowance, whichever is earlier]; and
- ☐ a) The required Statement made in item 9 below; or
- ☐ b) The \$180.00 fee specified in 37 CFR §1.17(p) for submission of this Information Disclosure Statement is authorized in item 10 below.
- ☐ 8. 37 CFR §1.97(d): [before issue fee payment]; and
- ☐ a) The fee (\$180.00) required by 37 CFR §1.17(p) is authorized in item 10 below; and
- ☐ b) The required Statement is stated in item 9 below.
- ☐ 9. Statement under 37 CFR 1.97(e)
- ☐ a) The undersigned attorney of record hereby certifies under 37 C.F.R. §1.97(e) that each item of information contained in this Information Disclosure Statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement (each item contained in this IDS was the first citation of that item by a foreign patent office in a counterpart foreign application which occurred no more than three months prior to the filing of this IDS); or
- ☐ b) No item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing this Statement, after making reasonable inquiry, no item of information contained in this Statement was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this Information Disclosure Statement.
- ☒ 10. Please charge all applicable fees associated with the submission of this Information Disclosure Statement and any other fees applicable to this application to Deposit Account No. 14-1140. An original and one (1) copy of this document are enclosed.

Respectfully submitted,

NIXON & VANDERHYE P.C.

By:



Joseph A. Rhoa
Reg. No. 37,515

STACHOWIAK

Serial No. To be Assigned

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**INFORMATION DISCLOSURE
CITATION**

ATTY. DOCKET NO.

3691-623

SERIAL NO.

To be Assigned

APPLICANT

STACHOWIAK

(Use several sheets if necessary)

FILING DATE

December 24, 2003

GROUP

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	6,558,800	5/2003	Stachowiak			
	6,514,620	2/2003	Lingle et al.			
	6,495,263	12/2002	Stachowiak			
	6,602,608	8/2003	Stachowiak			
	6,524,714	2/2003	Neuman et al.			
	6,589,658	7/2003	Stachowiak			
	6,586,102	7/2003	Stachowiak			
	6,605,358	8/2003	Stachowiak			
	6,475,626	11/2002	Stachowiak			
	5,521,765	5/1996	Wolfe			
	5,800,933	9/1998	Hartig et al.			
	6,014,872	1/2000	Hartig et al.			
	6,059,909	5/2000	Hartig et al.			
	6,132,881	10/2000	Hartig et al.			
	6,159,607	12/2000	Hartig et al.			
	5,942,338	8/1999	Arbab et al.			
	3,682,528	8/1972	Apfel et al.			
	5,377,045	12/1994	Wolfe et al.			
	5,188,887	2/1993	Lingle et al.			
	6,475,626	11/2002	Stachowiak			

FOREIGN PATENT DOCUMENTS

DOCUMENT	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
					YES	NO
WO 01/21540	3/2001	WIPO				

OTHER DOCUMENTS (including Author, Title, Date, Pertinent pages, etc.)

	U.S. Patent Application Serial No. 10/310,854 filed December 6, 2002
	U.S. Patent Application Serial No. 10/246,617 filed September 19, 2002
	Technical Digest 1995, "Optical Interference Coatings", WOLFE et al., Vol. 17, pgs. 115-117
	"Heat Insulating Glass Which Can be Thermally Worked", Hironobu, 05124839, 10/1991
*Examiner	Date Considered

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application.

Form PTO-FB-A820 (Also PTO-1449)

INFORMATION DISCLOSURE STATION
IN AN APPLICATION

(Use separate sheets if necessary)

STAGECHECK

Date Recd
December 24, 2003

Class and Unit

U. S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILED DATE & APPROPRIATE
	4413877		Suzuki et al			
	48106220		Finley			
	48198789		Finley			
	4898790		Finley			
	5028759		Finley			
	5059295		Finley			
	5270517		Finley			
	5902505		Finley			

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation YES NO

OTHER DOCUMENTS (Including Author, Title, Date, Page(s), Etc.)

Fan et al., "Transparent heat mirrors for solar-energy applications," Applied Optics, Vol. 15, No. 4, April 1976

Fan et al., "Transparent heat-mirror films of TiO₂/Ag/TiO₂ for solar energy collection and radiation insulation," Appl. Physics Letters, Vol. 25, No. 12, December 15, 1974

DATE CONSIDERED

EXAMINER

EXAMINER: Initial if document considered whether or not citation is in conformance with MPEP § 509; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

Form PTC-1443

INFORMATION DISCLOSURE CITATION
IN AN APPLICATION

(Use front cover disclosure)

3691-623

STAGEWORK

Date: December 24, 2003

U. S. PATENT DOCUMENTS

EXAMINER (INITIAL)	DOCUMENT NUMBER	DATE	AUTHOR	CLASS	CLASS	FILED DATE IF APPROPRIATE
	3272986	9/66	Schmidt			
	3681042	8/72	Edwards et al.			
	3798146	3/74	Chen et al.			
	3826728	7/74	Chambers et al.			
	3935351	1/76	Franz et al.			
	4166018	8/79	Chapin et al.			
	4413877	11/83	Suzuki et al.			
	4462883	7/84	Hart			
	4594137	6/86	Gillery et al.			
	4680742	7/87	Yamada et al.			
	4715879	12/87	Schmitte et al.			

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	CLASS	FILED DATE IF APPROPRIATE
0301755	2/89	EPO			
0332717	9/89	EPO			
0386993	9/90	EPO			
0456487	11/91	EPO			
0546302	6/93	EPO			

OTHER DOCUMENTS (Including Author, Ref. Cit., Foreign Prior. Ref.)

AIRC Super-E III Coating Process Release

AIRC Super-E IV Technology Process Release, P. 1-25

1991 Proposed ASTM Standard Test Method for Measuring and Calculating

Emission of Architectural Flat Glass Products Using Radiometric Measurements

EXAMINER

DATE RECEIVED

EXAMINER: Initial if citation considered. *Initial if not considered in performance with MPEP 1.509. Draw line through citation if not in performance and not considered. Includes any other form with next communication to the applicant.

Form PTO-443

INFORMATION DISCLOSURE CITATION
IN AN APPLICATION

(SEE INSTRUCTIONS)

369L-623

STAGEWORK

December 24, 2003

U. S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	AUTHOR	CLASS	REMARKS	STATUS PUBLISHED
	4769291	9/88	Balkind et al.			
	4780370	10/88	Tracy et al.			
	4790922	12/88	Heffer			
	4816034	3/89	Bhatt et al.			
	4826525	5/89	Chesworth et al.			
	4857094	8/89	Groth et al.			
	4948482	5/90	Kabayashi et al.			
	4954232	9/90	Yamada et al.			
	4960645	10/90	Lingle et al.			
	5062937	11/91	Komuro			
	5188887	2/93	Lingle et al.			

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	REMARKS	STATUS YES	NO
0546470	6/93	EPO				
0567735	11/93	EPO				
0622645	11/94	EPO				
0717014	6/96	EPO				
0722913	7/96	EPO				

OTHER DOCUMENTS (Including Author, Title, Date, Patent Page, Etc.)

ASTM Designation: E 434-71 "Standard Test Methods for Solar Energy Transmittance and Reflectance (Terrestrial) of Sheet Materials."
"Principles of Design of Architectural Coatings", Applied Optics Vol. 22, No. 24, December 15, 1983.
"Performance and Sputtering Criteria of Modern Architectural Glass Coatings"
SPIE Vol. 325, Optical Thin Films (1992).

EXAMINER

DATE DISCLOSED

EXAMINER: Initial if citation is considered relevant or not citation is in accordance with MPEP § 609; Cross line through citation if not in accordance and not considered. Includes copy of this form with next communication to the applicant.

Form PTO-145

INFORMATION DISCLOSURE CITATION
IN AN APPLICATION

3641-623

STACEOWEAR

December 24, 2003

U. S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	INVENTOR	CASE	STATUS	FILED DATE OR DISPOSITION
	52291194	7/93	Lingle et al.			
	5242560	9/93	Lingle et al.			
	53144718	9/94	Hartig et al.			
	5376455	12/94	Hartig et al.			
	5377045	12/94	Wolfe et al.			
	5403458	4/95	Hartig et al.			
	5514476	5/96	Hartig et al.			
	5543229	8/96	Ohseki et al.			
	5563734	10/96	Wolfe et al.			
	5688585	11/97	Lingle et al.			
	5770321	6/98	Hartig et al.			

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CASE	STATUS	FILED DATE OR DISPOSITION
07471329	12/96	EPO			
9002653	3/90	WO			
9005439	5/90	WO			
90018334	7/90	WO			
9513189	5/95	WO			

OTHER DOCUMENTS (including Author, Title, Date, Reference, Page, etc.)

EP Search Report, EP 96 10 4113

EXAMINER: (Initials) (Name) (Title) (Address) (City) (State) (Zip) (Country)

DATE: (Month/Day/Year)

EXAMINER'S COMMENTS: (If document is not pertinent, check box and attach to file. If document is pertinent, check box and attach to file. If document is not pertinent and not considered, attach copy of this form with next communication to the applicant.)

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